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AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method of quantifying a plant belonging to a specific plant genus

in a food or a food ingredient by a PCR method, comprising:

preparing a sample for correction where a sample derived from the specific plant genus to

be detected and a standard plant sample are mixed in a predetermined ratio, and extracting

genomic DNA from the sample for correction;

preparing a test sample where a known amount of the standard plant sample is added to

the food or the food ingredient to be examined a food or the food ingredient to be examined and

a standard plant sample are mixed in the same amount as the above sample for correction, and

extracting genomic DNA from the test sample;

practicing a quantitative PCR using a primer set for detecting the sample derived from the

specific plant genus to be detected and a primer set for detecting the standard plant sample with

the genomic DNA extracted from each of the sample for correction and the test sample as a

template;

determining, as a standard value for correction, a value of the copy number of the DNA

derived from the standard plant/the plant (Lo) and the copy number of the DNA derived from the

specific plant genus (Fo) for the sample for correction by the quantitative PCR method; and

determining a value of the copy number of the DNA derived from the specific plant

genus/the genus (Fs) and the copy number of the DNA derived from the standard plant (Ls) for

the test sample by the quantitative PCR method, and $\frac{1}{2}$ eorrecting the value with the standard value

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for correction to calculate

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calculating the amount of the plant belonging to the specific plant genus contained in the

food or the food ingredient using the above copy numbers according to the following equation:

Amount of plant belonging to specific plant genus (ppm (μg/g)) = Fs / Ls x Lo / Fo x 1.000.000.

2. (Original) The method according to claim 1, wherein the quantitative PCR method is a

real-time PCR method.

3. (Original) The method according to claim 2, characterized in that the real-time PCR

method quantifies DNA based on the amount of emitted light by use of a probe with a

fluorescent dye at the 5' end and a quencher at the 3' end that hybridizes to an internal region of

a genomic DNA site, which is hybridized with each oligonucleotide of a PCR primer set,

wherein light emitted from the fluorescent dve at the 5' end of the probe is suppressed by the

quencher at the 3' end, while during Taq polymerase-catalyzed DNA extension from the primer

in PCR reaction, the probe is degraded by the 5'→3' exonuclease activity of the Tag polymerase

to dissociate the fluorescent dye and the quencher, then causing light emission.

4. (Previously Presented) The method according to claim 1, wherein the standard plant

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belongs to a plant species other than upland weeds and food crops.

(Original) The method according to claim 4, wherein the standard plant is statice.

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6. (Previously Presented) The method according to claim 1, wherein the specific plant genus

to be detected is the genus Fagopyrum, Arachis, Triticum, or Glycine.

7. (Previously Presented) The method according to claim 2, wherein the standard plant is

statice, a primer set for detecting the statice is a set consisting of oligonucleotide having a

sequence shown in SEQ ID NO: 57 and oligonucleotide having a sequence shown in SEQ ID

NO: 58, and a probe for detecting the statice is oligonucleotide having a sequence shown in SEO

ID NO: 59.

8. (Previously Presented) The method according to claim 2, wherein the specific plant genus

to be detected is the genus Fagopyrum, a primer set for detecting the genus Fagopyrum is a set

consisting of oligonucleotide having a sequence shown in SEQ ID NO: 14 and oligonucleotide

having a sequence shown in SEQ ID NO: 15, and a probe for detecting the genus Fagopyrum is

oligonucleotide having a sequence shown in SEQ ID NO: 64.

9. (Withdrawn) The method according to claim 2, wherein the specific plant genus to be

detected is the genus Arachis, a primer set for detecting the genus Arachis is a primer set

consisting of oligonucleotide having a sequence shown in SEQ ID NO: 21 and oligonucleotide

having a sequence shown in SEQ ID NO: 26, 65, or 66, and a probe for detecting the genus

Arachis is oligonucleotide having a sequence shown in SEQ ID NO: 34.

10. (Withdrawn) A primer set for detecting statice consisting of oligonucleotide having a

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sequence shown in SEQ ID NO: 57 and oligonucleotide having a sequence shown in SEQ ID

NO: 58.

11. (Withdrawn) A primer set for detecting the genus Fagopyrum consisting of

oligonucleotide having a sequence shown in SEO ID NO: 14 and oligonucleotide having a

sequence shown in SEQ ID NO: 15.

12. (Withdrawn) A primer set for detecting the genus Arachis consisting of oligonucleotide

having a sequence shown in SEQ ID NO: 21 and oligonucleotide having a sequence shown in

SEQ ID NO: 26, 65, or 66.

13. (Withdrawn) A kit for use in a method of detecting a plant belonging to a specific plant

genus in a food or a food ingredient, comprising a primer set for detecting a standard plant

sample.

14. (Withdrawn) The kit according to claim 13, further comprising a probe for detecting the

standard plant sample.

15. (Withdrawn) The kit according to claim 13, wherein the standard plant is statice, and a

primer set for detecting the statice is a set consisting of oligonucleotide having a sequence shown

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in SEQ ID NO: 57 and oligonucleotide having a sequence shown in SEQ ID NO: 58.

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16. (Withdrawn) The kit according to claim 15, further comprising a probe for detecting the

statice having a sequence shown in SEQ ID NO: 59.

17. (Withdrawn) The kit according to claim 13, further comprising a primer set for detecting

the specific plant genus to be detected.

18. (Withdrawn) The kit according to claim 13, wherein the specific plant genus to be

detected is the genus Fagopyrum, and a primer set for detecting the genus Fagopyrum is a set

consisting of oligonucleotide having a sequence shown in SEQ ID NO: 14 and oligonucleotide

having a sequence shown in SEO ID NO: 15.

19. (Withdrawn) The kit according to claim 18, further comprising a probe for detecting the

genus Fagopyrum having a sequence shown in SEO ID NO: 64.

20. (Withdrawn) The kit according to claim 13, wherein the specific plant genus to be

detected is the genus Arachis, and a primer set for detecting the genus Arachis is a set consisting

of oligonucleotide having a sequence shown in SEQ ID NO: 21 and oligonucleotide having a

sequence shown in SEQ ID NO: 26, 65, or 66.

21. (Withdrawn) The kit according to claim 20, further comprising a probe for detecting the

genus Arachis having a sequence shown in SEQ ID NO: 34.

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22. (Withdrawn) The kit according to claim 15, further comprising a statice sample as the

standard plant sample.

23. (Withdrawn) The kit according to claim 13, wherein the standard plant is statice and the

specific plant genus to be detected is the genus Fagopyrum, the kit further comprising a plasmid

for standard curves for the statice and the genus Fagopyrum that comprises DNA having an

amplification target sequence of the statice and DNA having an amplification target sequence of

the genus Fagopyrum with the DNAs ligated together.

24. (Withdrawn) The kit according to claim 13, wherein the standard plant is statice and the

specific plant genus to be detected is the genus Arachis, the kit further comprising a plasmid for

standard curves for the statice and the genus Arachis that comprises DNA having an

amplification target sequence of the statice and DNA having an amplification target sequence of

the genus Arachis with the DNAs ligated together.

25. (Withdrawn) A kit for use in a method of detecting a plant belonging to the genus

Fagopyrum in a food or a food ingredient, comprising a primer set for detecting the genus

Fagopyrum consisting of oligonucleotide having a sequence shown in SEO ID NO: 14 and

oligonucleotide having a sequence shown in SEQ ID NO: 15.

26. (Withdrawn) The kit according to claim 25, further comprising a probe for detecting the

genus Fagopyrum having a sequence shown in SEO ID NO: 64.

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Arachis in a food or a food ingredient, comprising a primer set for detecting the genus Arachis

(Withdrawn) A kit for use in a method of detecting a plant belonging to the genus

consisting of oligonucleotide having a sequence shown in SEQ ID NO: 21 and oligonucleotide

having a sequence shown in SEQ ID NO: 26, 65, or 66.

27.

28. (Withdrawn) The kit according to claim 27, further comprising a probe for detecting the

genus Arachis having a sequence shown in SEQ ID NO: 34.